



Application Number: 09/832,990
Attorney Docket Number: 07303.0035

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-58 (canceled).

~~Claim 58~~ (previously presented): A structure for moving a wafer table, comprising:

a first joint movable in a first direction;

a second joint movable in a second direction to move the wafer table in the second direction;

a first diagonal member connected to the first and second joints at a first angle with respect to the first direction;

a first flexure connecting the diagonal member to the first joint;

a second flexure connecting the diagonal member to the second joint;

a fixedly mountable base;

a second diagonal members connected to the first joint and the base at a second angle with respect to the first direction;

a third flexure connecting the second diagonal member to the first joint; and

a fourth flexure connecting the second diagonal member to the base,

wherein the first flexure is bendable in response to the first joint moving in the first direction to change the first angle with respect to the first direction and thereby move the second joint in the second direction,

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wherein the second flexure is bendable in response to the first joint moving in the first direction to maintain the movement of the second joint in the second direction, and

wherein the third and fourth flexure are bendable in response to the first joint moving in the first direction to change the second angle with respect to the first direction and thereby move the first and second joints in the second direction.

²
Claim ~~60~~ (original): The structure of claim ~~58~~¹, further comprising:

a flange movable in the first direction and having an axis parallel to the first direction;

an axial member connected to the flange and the first joint;

a fifth flexure connecting the axial member to the first joint; and

a sixth flexure connecting the axial member to the flange,

wherein the fifth and sixth flexures are bendable in response to the first joint moving in the second direction to maintain the axis of the flange parallel to the first direction.

³
Claim ~~61~~ (original): The structure of claim ~~60~~², wherein the flange includes a recess configured to hold a piezoelectric actuator designed to move the flange in the first direction.

⁴
Claim ~~62~~ (original): The structure of claim ~~60~~², wherein a pair of the first diagonal members are connected to the first and second joints.

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⁵
Claim ~~65~~ (original): The structure of claim ~~62~~⁴, wherein a pair of the second diagonal members are connected to the first joint and the base.

⁶
Claim ~~64~~ (original): The structure of claim ~~60~~², wherein the second direction is perpendicular to the first direction.

⁷
Claim ~~65~~ (original): The structure of claim ~~60~~², wherein the first and second angles are equal.

⁸
Claim ~~66~~ (original): The structure of claim ~~60~~², wherein the first and second angles are less than 45 degrees.

⁹
Claim ~~67~~ (original): The structure of claim ~~66~~⁸, wherein the first and second angles change less than 1 degree in response to the first joint moving in the first direction.

¹⁰
Claim ~~68~~ (original): The structure of claim ~~60~~², wherein ratio of the movement of the first joint in the first direction to the movement of the second joint in the second direction is about 1 to 2.

¹¹
Claim ~~69~~ (original): The structure of claim ~~68~~¹⁰, wherein the movement of the second joint in the second direction is less than 200 microns.

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¹²
Claim ~~70~~ (original): The structure of claim ~~60~~², wherein the structure is fabricated from a nonmetallic material.

¹³
Claim ~~71~~ (original): The structure of claim ~~70~~¹², wherein the nonmetallic material is Zirconia ceramic.

¹⁴
Claim ~~72~~ (original): The structure of claim ~~70~~¹², wherein the nonmetallic material is Alumina ceramic.

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